

IN THE CLAIMS

*Please enter claims 42 and 44-46 as re-written below.*

42. (Amended) A method according to any of Claims 11-13, 15-21, 32, 33, 35-38, 40 or 41 wherein said activity-based probe(s) are fluorophosphonate-biotin (FP-biotin).

44. (Amended) A method according to any of Claims 11-13, 15-20, 23, 24, 32, 33, 35-39 or 41 wherein said activity-based probe(s) are selected from the group consisting of 10-((2-pyridylsulfonyl)oxo)-N-biotinamidopentyldecanamide, 10-((Benzenesulfonyl)oxo)-N-biotinamidopentyldecanamide, 10-((p-Toluenesulfonyl)oxo)-N-biotinamidopentyldecanamide, 10-((4-Methoxybenzenesulfonyl)oxo)-N-biotinamidopentyldecanamide, 10-((Methylsulfonyl)oxo)-N-biotinamidopentyldecanamide, 10-((Butylsulfonyl)oxo)-N-biotinamidopentyldecanamide, 10-((Octylsulfonyl)oxo)-N-biotinamidopentyldecanamide, 10-((4-Nitrobenzenesulfonyl)oxo)-N-biotinamidopentyldecanamide, 10-((8-Quinolinesulfonyl)oxo)-N-biotinamidopentyldecanamide, 10-((2-Naphthalenesulfonyl)oxo)-N-biotinamidopentyldecanamide, 10-((2-Thiophenesulfonyl)oxo)-N-biotinamidopentyldecanamide,  $\alpha$ -undecylenyl alcohol, ((2-pyridylsulfonyl)oxo)-10-undecene, 10-((2-pyridylsulfonyl)oxo)-decanoic acid, 1-(2-pyridylsulfonyl)oxo-octane, 1-(2-pyridylsulfonyl)oxo-ethane, and 1-(methanesulfonyl)oxo-octane.

45. (Amended) A method according to claim 44 wherein said activity-based probe is 1-(2-pyridylsulfonyl)oxo-octane.

46. (Amended) A method according to Claim 14 or 34 wherein said activity-based probe(s) are selected from the group consisting of FP-biotin, FP-peg-biotin, 10-((2-pyridylsulfonyl)oxo)-N-biotinamidopentyldecanamide, 10-((Benzenesulfonyl)oxo)-N-biotinamidopentyldecanamide, 10-((p-Toluenesulfonyl)oxo)-N-biotinamidopentyldecanamide, 10-((4-Methoxybenzenesulfonyl)oxo)-N-biotinamidopentyldecanamide,

10-((Methylsulfonyl)oxo)-*N*-biotinamidopentyldecanamide, 10-((Butylsulfonyl)oxo)-*N*-biotinamidopentyldecanamide, 10-((Octylsulfonyl)oxo)-*N*-biotinamidopentyldecanamide, 10-((4-Nitrobenzenesulfonyl)oxo)-*N*-biotinamidopentyldecanamide, 10-((8-Quinolinesulfonyl)oxo)-*N*-biotinamidopentyldecanamide, 10-((2-Naphthalenesulfonyl)oxo)-*N*-biotinamidopentyldecanamide, 10-((2-Thiophenesulfonyl)oxo)-*N*-biotinamidopentyldecanamide,  $\alpha$ -undecylenyl alcohol, ((2-pyridylsulfonyl)oxo)-10-undecene, 10-((2-pyridylsulfonyl)oxo)-decanoic acid, 1-(2-pyridylsulfonyl)oxo-octane, 1-(2-pyridylsulfonyl)oxo-ethane, and 1-(methanesulfonyl)oxo-octane.

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